

What is claimed is:

1. A fuel filter comprising: a filtration chamber
5 including an inner cylinder and an outer cylinder disposed
concentrically with a predetermined space, a bottom part
that closes an opening end on one end side of said inner
cylinder and the outer cylinder, and a lid part, in which
10 a fuel suction pipe and a fuel sending pipe are disposed,
that closes an opening end on the other end side of the inner
cylinder and the outer cylinder;

a filtering member that is accommodated in the said
filtration chamber and filtrates fuel that flows from said
fuel suction pipe into said filtration chamber;

15 a centrifugal force applying member, which is disposed
at an end of said filtering member on said lid part, for
centrifuging the fuel that flows into said filtration
chamber; and

20 a groove portion extending along an inner wall face
of the outer cylinder and formed on the bottom part.

2. The fuel filter according to claim 1, characterized
in that said filtering member has pleats-like folds formed
substantially in the same direction as the flowing direction
25 of the fuel centrifuged by said centrifugal force applying
member.

3. The fuel filter according to claim 1, characterized
in that a spiral guide projection is formed on the inner
30 wall face of said outer cylinder substantially in the same

direction as the flowing direction of the fuel centrifuged by said centrifugal force applying member.

4. The Fuel filter according to claim 2, characterized in that a spiral guide projection is formed on the inner wall face of said outer cylinder substantially in the same direction as the flowing direction of the fuel centrifuged by said centrifugal force applying member.

5. A fuel supply system, comprising:
a fuel tank in which unfiltered fuel is stored;
the fuel filter as defined in claims 1; and
a fuel pump that is disposed in a space portion formed by the inner cylinder of said fuel filter, sends fuel in the fuel tank into said fuel filter, and sends out the fuel filtrated by said fuel filter toward an internal combustion engine.

6. The fuel supply system according to claim 5, wherein the filtering member of the fuel filter has pleats-like folds formed substantially in the same direction as the flowing direction of the fuel centrifuged by said centrifugal force applying member.

7. The fuel supply system according to claim 5, wherein a spiral guide projection is formed on the inner wall face of the outer cylinder of the fuel filter substantially in the same direction as the flowing direction of the fuel centrifuged by the centrifugal force applying member.

8. The fuel supply system according to claim 6, wherein
a spiral guide projection is formed on the inner wall face
of said outer cylinder substantially in the same direction
as the flowing direction of the fuel centrifuged by the
5 centrifugal force applying member.